

Form PTO-1449 (Modified)

U.S. Department of Commerce
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27611/35996ASerial No.
09/918,330Applicant
Rasenick *et al.*Filing Date
July 30, 2001Group
1619 / 1651

INFORMATION DISCLOSURE STATEMENT

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U.S. PATENT DOCUMENTS

*Examiner Initials	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

*Examiner Initials	Document Number	Publication Date	Country	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

126	C1	Avisar <i>et al.</i> , "Interaction of Antibipolar and Antidepressant Treatments with Receptor-Coupled G Proteins," <i>Pharmacopsychiat.</i> , 25:44-50 (1992).
	C2	Carlson, <i>et al.</i> , "Fractionation of the Beta Subunit Common to Guanine Nucleotide-Binding Regulatory Proteins with the Cytoskeleton," <i>Mol. Pharmacol.</i> , 30:463-468 (1986).
	C3	Chen, <i>et al.</i> , "Chronic Antidepressant Treatment Facilitates G Protein Activation of Adenylyl Cyclase without Altering G Protein Content," <i>J. Pharm. Exp. Ther.</i> , 275:509-517 (1995).
	C4	Chen, <i>et al.</i> , "Chronic Treatment of C6 Glioma Cells with Antidepressant Drugs Increases Functional Coupling Between a G Protein (G _s) and Adenylyl Cyclase," <i>J. Neurochem.</i> , 64:724-732 (1995).
	C5	Cowburn, <i>et al.</i> , "Adenylyl Cyclase Activity and G-protein Subunit Levels in Postmortem Frontal Cortex of Suicide Victims," <i>Brain Res.</i> , 633:297-304 (1994).

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DATE CONSIDERED

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

176	C6	De Montis, <i>et al.</i> , "Selective Adenylate Cyclase Increase in the Limbic Area of Long-term Imipramine-treated Rats," <i>Eur. J. Pharmacol.</i> , 180:169-174 (1990).
	C7	Donati, <i>et al.</i> , "Chronic Treatment of C6 Glioma Cells with Antidepressant Drugs Results in a Redistribution of Gs α ," <i>Molecular Pharmacology</i> , 59:1426-1432 (2001).
	C8	Duman, <i>et al.</i> , "A Molecular and Cellular Theory of Depression," <i>Arch. Gen. Psychiatry</i> , 54:597-606 (1997).
	C9	Emamghoreishi, <i>et al.</i> , "Lack of Effect of Chronic Antidepressant Treatment of Gs and Gi Alpha-subunit Protein and mRNA Levels in the Rat Cerebral Cortex," <i>Neuropsychopharmacology</i> , 15:281-287 (1996).
	C10	Jenkinson, <i>et al.</i> , "Two Affinities for a Single Antagonist at the Neuronal NK1 Tachykinin Receptor: Evidence from Quantitation of Receptor Endocytosis," <i>Br. J. Pharmacol.</i> , 126:131-136 (1999).
	C11	Kuo, <i>et al.</i> , "Force of Single Kinesin Molecules Measured with Optical Tweezers," <i>Science</i> , 260:232-234 (1993).
	C12	Lee, <i>et al.</i> , "Expression of G-protein Alpha Subunits of <i>Escherichia coli</i> ," <i>Methods Enzymol.</i> , 237:146-164 (1994).
	C13	Li, <i>et al.</i> , "Evidence for a Regulated Interaction between Heterotrimeric G Proteins and Caveolin," <i>J. Biol. Chem.</i> , 270:15693-15701 (1995).
	C14	Menkes, <i>et al.</i> , "Guanosine Triphosphate Activation of Brain Adenylate Cyclase: Enhancement by Long-Term Antidepressant Treatment," <i>Science</i> , 219:65-67 (1983).
	C15	Neubig, R. R., "Membrane Organization in G-protein Mechanisms," <i>J. FASEB</i> , 8:939-946 (1994).
✓	C16	Okamoto, <i>et al.</i> , "Caveolins, a Family of Scaffolding Proteins for Organizing 'Preassembled Signaling Complexes' at the Plasma Membrane," <i>J. Biol. Chem.</i> , 273:5419-5422 (1998).

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DATE CONSIDERED

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

176	C17	Ozawa, <i>et al.</i> , "Chronic Electroconvulsive Treatment Augments Coupling of the GTP-Binding Protein Gs to the Catalytic Moiety of Adenylyl Cyclase in a Manner Similar to That Seen with Chronic Antidepressant Drugs," <i>J. Neurochem.</i> , 56:330-338 (1991).
	C18	Ozawa, <i>et al.</i> , "Coupling of the Stimulatory GTP-Binding Protein G _s to Rat Synaptic Membrane Adenylate Cyclase is Enhanced Subsequent to Chronic Antidepressant Treatment," <i>Mol. Pharm.</i> , 36:803-808 (1989).
	C19	Perez, <i>et al.</i> , "cAMP Binding Proteins in the Rat Cerebral Cortex After Administration of Selective 5-HT and NE Reuptake Blockers with Antidepressant Activity," <i>Neuropsychopharmacology</i> , 4:57-64 (1991).
	C20	Perez, <i>et al.</i> , "cAMP Dependent Phosphorylation of Soluble and Crude Microtubule Fractions of Rat Cerebral Cortex After Prolonged Desmethylinipramine Treatment," <i>Eur. J. Pharmacol.</i> , 172:305-316 (1989).
	C21	Popova, <i>et al.</i> , "Muscarinic Receptor Activation Promotes the Membrane Association of Tubulin for the Regulation of Gq-Mediated Phospholipase C β_1 Signaling," <i>J. of Neuroscience</i> , 20:2774-2782 (2000).
	C22	Popova, <i>et al.</i> , "Tubulin, G _q , and Phosphatidylinositol 4,5-Bisphosphate Interact to Regulate Phospholipase C β_1 Signaling," <i>J. Biol. Chem.</i> , 272:6760-6765 (1997).
	C23	Rasenick, <i>et al.</i> , "G Protein-Mediated Signal Transduction as a Target of Antidepressant and Antibipolar Drug Action: Evidence from Model Systems," <i>J. Clin. Psychiatry</i> , 57:49-55 (1996).
	C24	Rasenick, <i>et al.</i> , "Guanine Nucleotide Activation of Adenylate Cyclase in Saponin Permeabilized Glioma Cells," <i>FEBS Letters</i> , 207:296-301 (1986).
	C25	Rasenick, <i>et al.</i> , "Guanosine-5'-O-thiodiphosphate Functions as a Partial Agonist for the Receptor-independent Stimulation of Neural Adenylate Cyclase," <i>Brain Res.</i> , 488:105-113 (1989).
✓	C26	Rasenick, <i>et al.</i> , "Specific Associations between Tubulin and G Proteins: Participation of Cytoskeletal Elements in Cellular Signal Transduction," <i>Adv. Second Messenger Phosphoprotein Res.</i> , 24:381-386 (1990).

EXAMINER

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DATE CONSIDERED

3/19/04

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(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

126	C27	Rasenick, <i>et al.</i> , "The Regulatory Subunit of Adenylate Cyclase Interacts with Cytoskeletal Components," <i>Nature</i> , 294:560-562 (1981).
	C28	Regula, <i>et al.</i> , "Membrane Tubulin," <i>Ann. N.Y. Acad. Sci.</i> , 466:832-842 (1986).
	C29	Roychowdhury, <i>et al.</i> , "G Protein α Subunits Activate Tubulin GTPase and Modulate Microtubule Polymerization Dynamics," <i>J. Biol. Chem.</i> , 274:13485-13490 (1999).
	C30	Roychowdhury, <i>et al.</i> , "G Protein Binding and G Protein Activation by Nucleotide Transfer Involve Distinct Domains on Tubulin: Regulation of Signal Transduction by Cytoskeletal Elements," <i>Biochem.</i> , 32:4955-4961 (1993).
	C31	Roychowdhury, <i>et al.</i> , "Tubulin-G Protein Association Stabilizes GTP Binding and Activates GTPase: Cytoskeletal Participation in Neuronal Signal Transduction," <i>Biochem.</i> , 33:9800-9805 (1994).
	C32	Senda <i>et al.</i> , "Alterations in the Detergent Extraction of G Protein from the Plasma Membrane From Postmortem Human Brains of Patients with Depression," Society for Neuroscience Abstracts, 26(1-2) : Abstract (2000); 30 th Annual Meeting of the Society of Neuroscience, New Orleans, LA, USA, November 4-9, 2000.
	C33	Southwell, <i>et al.</i> , "Movement of Villi Induces Endocytosis of NK1 Receptors in Myenteric Neurons From Guinea-pig Ileum," <i>Cell Tissue Res.</i> , 292:37-45 (1998).
	C34	Sulser, F., "Antidepressant Treatments and Regulation of Norepinephrine-receptor-coupled Adenylate Cyclase Systems in Brain," <i>Adv. Biochem. Psychopharmacol.</i> , 39:249-261 (1984).
	C35	Takahashi, <i>et al.</i> , "Chronic Antidepressant Administration Increases the Expression of cAMP-Specific Phosphodiesterase 4A and 4B Isoforms," <i>J. of Neuroscience</i> , 19:610-618 (1999).
	C36	Toki, <i>et al.</i> , "Treatment of C6 Glioma Cells and Rats with Antidepressant Drugs Increases the Detergent Extraction of G _{sa} from Plasma Membrane," <i>J. of Neurochem.</i> , 73:1114-1120 (1999).
	C37	Wang, <i>et al.</i> , "Tubulin-G Protein Interactions Involve Microtubule Polymerization Domains," <i>Biochem.</i> , 30:10957-10965 (1991).

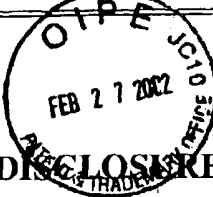
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
RG	C38	Yan, <i>et al.</i> , "Synaptic Membrane G Proteins Are Complexed with Tubulin in Situ," <i>J. of Neurochem.</i> , 66:1489-1495 (1996).
RG	C39	Yan, <i>et al.</i> , "Tubulin Stimulates Adenylyl Cyclase Activity in C6 Glioma Cells by Bypassing the β -Adrenergic Receptor: A Potential Mechanism of G Protein Activation," <i>J. of Neurochem.</i> , 76:182-190 (2001).

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